

Blue Happiness

by Arya Akhavan (November 2012)

Angles for R.I. = 1.500

57 + 12 girdles = 69 facets

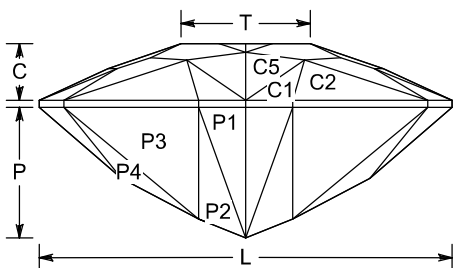
2-fold, mirror-image symmetry

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$L/W = 1.379$ $T/W = 0.432$ $U/W = 0.170$

$P/W = 0.435$ $C/W = 0.188$

$Vol./W^3 = 0.262$



PAVILION

P1	42.00°	04-44-52-92	Cut to centerpoint.
P2	42.16°	07-41-55-89	Meet at culet.
G1	90.00°	04-44-52-92	Set stone width.
P3	43.16°	08-40-56-88	Meet P1, P2, G1
G2	90.00°	08-40-56-88	Level girdle.
P4	40.78°	10-38-58-86	Meet P2, P3
P5	43.00°	18-30-66-78	Meet P3, G2, P4
G3	90.00°	18-30-66-78	Level girdle.

CROWN

C1	39.76°	04-44-52-92	Set girdle width.
C2	45.00°	08-40-56-88	Level girdle.
C3	30.00°	18-30-66-78	Level girdle.
C4	36.00°	10-38-58-86	Meet G2, G3, C2, C3
C5	34.95°	02-46-50-94	Meet G1, C1
C6	25.00°	21-27-69-75	Meet G3, C3
C7	19.18°	21-27-69-75	Meet C3, C4, C6
C8	13.00°	08-40-56-88	Meet C1, C2, C4, C5
C9	9.00°	02-46-50-94	Meet C1, C5, C8
T	0.00°	Table	Meet C7, C8

The impetus for writing this highly-specific design outline was a massive inside joke between a bunch of the younger gemcutters and designers, but somehow it ended up looking really good. Test-cut by Phil Lagas-Rivera of Alternative Gems, who got extremely interesting dichroic effects along the X vs. Y axes of the stone. Works in materials from petalite to corundum (RI = 1.50 - 1.76) with no changes, but can be pushed higher.

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